

## Claims:

1. An isocyanate-free foamable mixture comprising  
 (A) a mixture of prepolymers (A) in which 50-99% of  
 5 the chain ends are terminated by alkoxysilyl  
 groups and 1-50% of the chain ends are terminated  
 by groups of the general formula [2]



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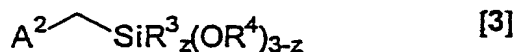
where

- $A^1$  is an oxygen atom, an  $N-R^2$  group or a sulfur atom,  
 $R^1$  is an alkyl, cycloalkyl, alkenyl, aryl or  
 arylalkyl radical having 2-50 carbon atoms in  
 15 which the carbon chain can be interrupted as  
 desired by nonadjacent oxygen atoms, sulfur atoms  
 or  $N-R^2$  groups and the main chain of  $R^1$  can also be  
 substituted by lateral alkyl groups having 1-10  
 carbon atoms or halogen atoms, and  
 20  $R^2$  is a hydrogen atom or an alkyl, alkenyl or aryl  
 radical having 1-10 carbon atoms,  
 and

(B) a hydrocarbon blowing agent.

- 25 2. The mixture as claimed in claim 1, wherein  $R^1$  is  
 an alkyl or alkenyl group having 8-26 carbon atoms.

3. The mixture as claimed in claim 1 or 2, wherein  
 the prepolymers (A) have alkoxysilyl groups of the  
 30 general formula [3]



where

- $A^2$  is an oxygen atom, an  $N-R^5$  group or a sulfur atom,  
 35  $R^3$  is an alkyl, cycloalkyl, alkenyl or aryl radical  
 having 1-10 carbon atoms,

R<sup>4</sup> is an alkyl radical having 1-2 carbon atoms or an  $\omega$ -oxaalkylalkyl radical having a total of 2-10 carbon atoms,

5 R<sup>5</sup> is a hydrogen atom, an alkyl, alkenyl or aryl radical having 1-10 carbon atoms or a -CH<sub>2</sub>-SiR<sup>3</sup><sub>z</sub>(OR<sup>4</sup>)<sub>3-z</sub> group and,

z is 0, 1 or 2.

10 4. The mixture as claimed in claim 3, wherein the heteroatom A<sup>2</sup> in the general formula [3] is part of a urea or urethane unit.

15 5. The mixture as claimed in any of claims 1 to 4, wherein the hydrocarbon blowing agent (B) comprises hydrocarbons having 1-5 carbon atoms.

20 6. The mixture as claimed in any of claims 1 to 5 comprising a blowing agent mixture (BM) which comprises at least 50% by volume of hydrocarbon blowing agent (B) and one or more further blowing agents.

7. The mixture as claimed in claim 6, wherein a further blowing agent is dimethyl ether.

25 8. A process for preparing the foamable mixtures as claimed in any of claims 1 to 7, wherein the prepolymer (A) is prepared entirely or at least partly in a pressure vessel.

30 9. A pressure vessel containing the foamable mixtures as claimed in any of claims 1 to 7.